## MicroLine CCD Camera

ML4720

The ML4720 uses a back-illuminated frame transfer CCD. Half of the sensor is covered with a metal mask; half is exposed to light. The exposed side of the sensor is centered in the camera aperture. The image is shifted under the mask in about 10 milliseconds.

## Technical Data

Sensor Type Back Illuminated Frame Transfer CCD
Sensor e2v CCD47-20-1-339 (MB) or -331 (BB)

Active Pixels  $1024 \times 1024$ Pixel Size (microns)  $13 \times 13 \mu m$ 

Imaging Area (Diagonal) 13.3 X 13.3 mm (18.8 mm)

Full Well Capacity 100000 electrons

Typical\_Readout Noise 13e- at 500 kHz; 18e- at 2 MHz

Typical Gain 2.4e-/ADU

Dynamic Range 79.7 dB

Anti-Blooming None

Cooling Method Air (Optional liquid)

Max. Cooling (Air) 55°C below ambient

Temperature Stability 0.1°C

Dark Current (typical) 0.3 eps at -30C

Interface USB 2.0

Digitization Clock 500 kHz and 2 MHz per channel

Data Bit Depth 16 bit
Non-Linearity <1%

Channels 2 (optional 1)
Shutter Optional 25mm

Lens Mount C-mount; Nikon or Canon mount

Subarray Readout Standard

External Trigger In/Out Standard

SDK / Software USB2 / FLIGrab

Weight 2.8 lbs (1.2 kg)

Environment -30°C to 45°C | 10% - 90% Relative

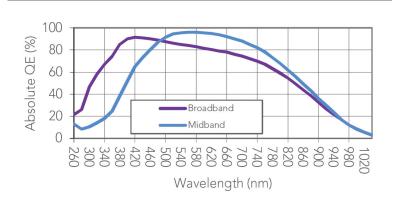
Humidity

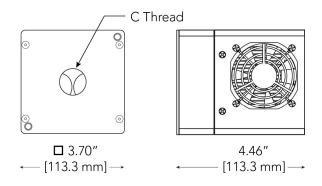
Power 12V (100-240V AC to 12V DC power

supply included). With TEC off: <1A.



## Absolute Quantum Efficiency





See www.flicamera.com for alternate configurations



